

1600 South Second Street Mount Vernon, WA 98273-5202 ph 360.428.1617 fax 360.428.1620 www.nwcleanair.org

## Air Operating Permit **Excess Emissions Report** Form Part II

Name of Facility	Shell, Puget Sound Refinery		Reported by		Tim Figgie
Date of notification	Jan 30, 2010		Incident type: breakdown/ upset/startup or shutdown		Startup
Start Date	Feb 6, 2010		Start Time:		6:00 PM
End Date	Feb 8, 2010		End Time:		3:00 PM
Process unit or system(s): SRU3					
Incident Description					
On February 6 at approximately 6 PM high SO2 readings occurred on SRU3 during startup of					
the unit after being shutdown for maintenance and repair. As part of normal startup, the unit					
is heated up and residual sulfur in the system is released. There was no AAG feed in the unit at the time. The 250-PPM SO2 12-hour average limit was exceeded and these emissions are					
part of normal startup and are unavoidable.					
part of flormal stated and are unavoidable.					
Immediate steps taken to limit the duration and/or quantity of excess emissions:					
All AAG feed was routed to SRU4.					
Applicable air operating permit					
term(s): 5.8.15					
Estimated Excess Emissions:		Pollutant(s):		Pounds (Estin	nate):
Based on SO2 CEMS and calculated		S02		649	
stack flow					
The incident was the			(check all that	apply):	
Scheduled equipment startup  Scheduled equipment shutdown					
Poor or inadequate design					
Careless, poor, or inadequate operation					
Poor or inadequate maintenance					
A reasonably preventable condition					
Did the facility receive any complaints from the public?					
⊠ No					
Yes (provide details below)					
Did the incident result in the violation of an ambient air quality standard					
⊠ No					
Yes (provide details below)					
Root and other contributing causes of incident:					
These emissions are part of normal startup and are unavoidable.					

The root cause of the incident was:

Page 2 (The retention of records of all required monitoring data and support information shall be kept for a period of five years from the date of the report as per the WAC regulation (173-401-615)) Identified for the first time Identified as a recurrence (explain previous incident(s) below – provide dates) These emissions are part of normal startup and are unavoidable. Are the emissions from the incident exempted by the NSPS or NESHAP "malfunction" definitions below? No Yes (describe below) These emissions are part of normal startup and are unavoidable. Definition of NSPS "Malfunction": Any sudden, infrequent, and not reasonably preventable failure of air pollution control equipment, process equipment, or failure of a process to operate in a normal or usual manner. Failures that are caused in part by poor maintenance or careless operation are not malfunctions. 40 CFR 60.2 <u>Definition of NESHAP "Malfunction"</u>: Any sudden, infrequent, and not reasonably preventable failure of air pollution control and monitoring equipment, process equipment, or a process to operate in a normal or usual manner which causes, or has the potential to cause, the emission limitations in an applicable standard to be exceeded. Failures that are caused in part by poor maintenance or careless operation are not malfunctions. 40 CFR 63.2 Analyses of measures available to reduce likelihood of recurrence (evaluate possible design, operational, and maintenance changes; discuss alternatives, probable effectiveness, and cost; determine if an outside consultant should be retained to assist with analyses): These emissions are part of normal startup and are unavoidable. Description of corrective action to be taken (include commencement and completion dates): See above If correction not required, explain basis for conclusion: See above Attach Reports, Reference Documents, and Other Backup Material as Necessary. This report satisfies the requirements of both NWCAA regulation 340, 341, 342 and the WAC regulation (173-400-107). ⊠No □Yes Is the investigation continuing? Is the source requesting additional time for completion of the report?  $\square$ No  $\square$ Yes Based upon information and belief formed after reasonable inquiry, I certify that the statements and information in this document and all referenced documents and attachments are true, accurate and complete. Prepared By: \_ Tim Figgle\_\_ Date: \_ Responsible Official or Designee:

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